

ABSTRACT OF THE INVENTION

A rigid, flat plate diaphragm for an acoustic device is illustrated. The internal supporting structure of the
5 diaphragm provides a combination of torsional and translational stiffeners, which resemble a number of crossbars. These stiffeners brace and support the diaphragm motion, thus causing its response to not be adversely affected by fabrication stresses and causing it to be very similar in
10 dynamic response to an ideal flat plate operating in a frequency range that extends well beyond the audible.